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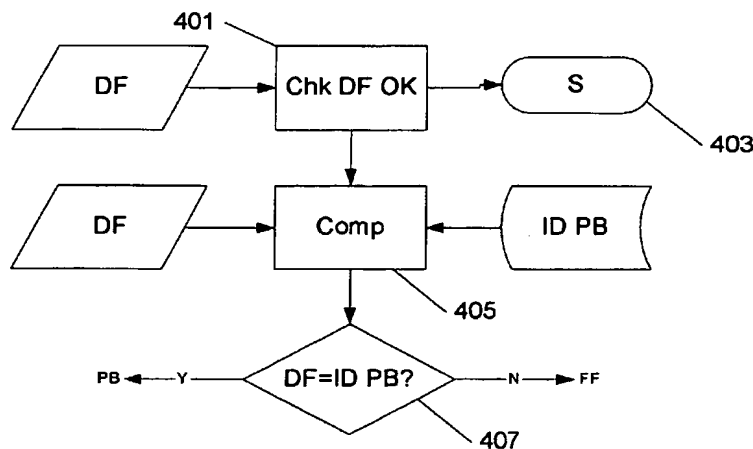
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(54) Title: METHOD AND ADAPTER FOR PROTOCOL DETECTION IN A FIELD BUS NETWORK



(57) Abstract: The present invention relates to a field bus adapter for transmitting and receiving control data from a field bus network where data is being exchanged according to a specific field bus protocol, said adapter comprises a transmitter for transmitting data to the field bus network and a receiver for receiving data from the field bus network, characterised in that the adapter further comprises a protocol detector adapted for detecting a field bus protocol between a number of predefined field bus protocols and for setting up the receiver and the transmitter for communicating according to said detected field bus protocol. The protocol detector comprises means for receiving data from the field bus, means for determining if the received data complies with predefined characteristics stored in a database, said characteristics uniquely identifying data of only one of said number of predefined field bus protocols, means for setting up the receiver and the transmitter for communicating according to said one protocol, if said received data complies with said characteristics. The invention further relates to a method for transmitting and receiving control data from a field bus network according to the above.

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## INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 151 640 A (BAILEY JONATHAN H ET AL) 21 November 2000 (2000-11-21) abstract; claims 1-10	1-15
Y	EP 0 713 310 A (CANON INFORMATION SYST INC) 22 May 1996 (1996-05-22) column 1, line 3-7 column 1, line 35-54 column 2, line 24-50 column 3, line 1-5 column 12, line 40-47 column 16, line 50 -column 17, line 45 column 18, line 31-37 column 19, line 3,4 column 19, line 48-52 abstract; figures 10,11A	1-15

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 5 923 557 A (EIDSON JOHN C) 13 July 1999 (1999-07-13) abstract ---	1-15
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